



## Quebec Cushion

by Arya Akhavan (December 2015)

Angles for R.I. = 1.540

81 + 16 girdles = 97 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.310 T/W = 0.801 U/W = 0.482

P/W = 0.691 C/W = 0.200

Vol./W<sup>3</sup> = 0.546

### PAVILION

P1	43.50°	96-04-08-12-16-20-24-28-32-36-40-44-48-52-56-60-64-68-72-76-80-84-88-92	Cut to centerpoint.
G1	90.00°	96-48	Set stone width.
G2	90.00°	04-44-52-92	Meet P1, G1
G3	90.00°	20-28-68-76	Meet P1, G2
G4	90.00°	22-26-70-74	Meet P1, G3
G5	90.00°	24-72	Meet P1, G4
P2	66.50°	20-28-68-76	Level girdle.
P3	67.04°	22-26-70-74	Level girdle.
P4	67.22°	24-72	Level girdle.
P5	75.97°	04-44-52-92	Level girdle.
P6	77.89°	96-48	Level girdle.

### CROWN

C1	45.00°	96-48	Set girdle width.
C2	39.84°	04-44-52-92	Level girdle.
C3	39.84°	20-28-68-76	Level girdle.
C4	39.84°	22-26-70-74	Level girdle.
C5	39.84°	24-72	Level girdle.
C6	39.84°	01-47-49-95	Meet G1, G2, C1, C2
C7	31.89°	12-36-60-84	Meet G2, G3, C2, C3
C8	38.34°	23-25-71-73	Meet G4, G5, C4, C5; C3, C4, C7
C9	36.90°	24-72	Meet C5, C8
C10	29.06°	96-48	Meet C1, C6; C2, C6, C7
C11	26.49°	18-30-66-78	Meet C3, C4, C7, C8
C12	22.31°	01-47-49-95	Meet C2, C6, C7, C10
T	0.00°	Table	Meet C8, C9, C11; C7, C11, C12; C10, C12

This design was written for William Parent over a Skype chat, as a high-yield design for a preformed 150ct+ piece of untreated morganite he had. The design matches the rough's general outline, L/W ratio, and height. Although the pavilion is an easy barion, the crown can be a bit tricky for some of the compound meetpoints. Looks great in the beryls, and works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes.

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